

SRW Summary

Western Treatment Plant Recycled Water Quality

Metals analysis in mg/L	LTV Limit *	STV Limit *	Median
Aluminium	5	20	0.015
Antimony			0.0018
Arsenic	0.1	2	0.001
Barium			0.016
Beryllium	0.1	0.5	< 0.001
Boron	0.5		0.21
Cadmium	0.01	0.05	< 0.0002
Chromium	0.1	1	< 0.001
Cobalt	0.05	0.1	< 0.001
Copper	0.2	5	0.005
Iron	0.2	10	< 0.1
Lead	2	5	< 0.001
Lithium	2.5 [#]	2.5 [#]	0.01
Manganese	0.2	10	0.082
Mercury	0.002	0.002	< 0.0001
Molybdenum	0.01	0.05	0.0015
Nickel	0.2	2	#N/A
Selenium	0.02	0.05	< 0.001
Silver			0.0023
Thorium			0.0021
Tin			< 0.001
Vanadium	0.1	0.5	0.001
Zinc	2	5	0.035

Physical Chemistry	LTV Limit *	STV Limit *	Median
pH			7.45
BOD5 (mg/L)			#N/A
Suspended Solids (mg/L)			2
<i>E.coli</i> post disinfection (orgs/100mL)			< 1
Somatic Coliphage			< 1
Total Nitrogen (mg-N/L)	5	25-125	8
Nitrite (mg-N/L)			< 0.01
Nitrate (mg-N/L)			6.8
Total Phosphorous (mg-P/L)	0.05	0.8-12	3.5

Salinity Indicators	Median
Sodium (mg/L)	250
Potassium (mg/L)	25
Calcium (mg/L)	26
Magnesium (mg/L)	25
SAR	8.4
Chloride (mg-Cl/L)	380
TDS (mg/L)	#N/A
TDS Inorganic (mg/L)	#N/A
TDS Organic (mg/L)	#N/A
Electrical Conductivity	1700

Aesthetic Indicator	Median
Colour (Pt/co units)	12

* ARMCANZ / ANZECC Long Term trigger Value (up to 100 years)

* ARMCANZ / ANZECC Short Term trigger Value (up to 20 years)

Lithium STV & LTV for citrus crops is 0.075 mg/l